09/936869

1/7

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TGT GTA CAA ATC ATG GGT CGT GGG AAG ATT GAG ATA AAG AGG ATT GAA AAT ACT   54
                M   G   R   G   K   I   E   I   K   R   I   E   N   T

ACG AAC CGA CAG GTC ACT TTC TGC AAG CGC CGA AAT GGT TTA TTA AAG AAG GCG   108
 T   N   R   Q   V   T   F   C   K   R   R   N   G   L   L   K   K   A

TAT GAA TTA TCA GTT CTT TGT GAT GCA GAA GTG GCC CTC ATC GTC TTC TCC AGC   162
 Y   E   L   S   V   L   C   D   A   E   V   A   L   I   V   F   S   S

AGA GGG AGA CTT TAT GAA TTT GCC AAC CAC AGC GTG AAG AGG ACG ATT GAG AGG   216
 R   G   R   L   Y   E   F   A   N   H   S   V   K   R   T   I   E   R

TAC AAG AAG ACT TGC GTT GAC AAC AAC CAC GGA GGG GCG ATA TCA GAG TCC AAT   270
 Y   K   K   T   C   V   D   N   N   H   G   G   A   I   S   E   S   N

TCT CAG TAT TGG CAA CAG GAG GCT GGT AAA CTC AGA CAA CAG ATT GAC ATT TTG   324
 S   Q   Y   W   Q   Q   E   A   G   K   L   R   Q   Q   I   D   I   L

CAA AAT GCA AAT AGG CAT TTG ATG GGT GAC GGG CTT ACA GCT TTG AAC ATT AAG   378
 Q   N   A   N   R   H   L   M   G   D   G   L   T   A   L   N   I   K

GAA CTC AAG CAA CTT GAG GTT CGA CTT GAA AAA GGA ATC AGC CGA GTG CGA TCC   432
 E   L   K   Q   L   E   V   R   L   E   K   G   I   S   R   V   R   S

AAA AAG AAC GAG ATG TTG CTT GAA GAG ATC GAC ATC ATG CAG AGA AGG GAA CAC   486
 K   K   N   E   M   L   L   E   E   I   D   I   M   Q   R   R   E   H

ATA CTT ATC CAG GAG AAT GAG ATT CTT CGC AGC AAG ATA GCC GAG TGT CAG AAT   540
 I   L   I   Q   E   N   E   I   L   R   S   K   I   A   E   C   Q   N

AGC CAC AAC ACG AAC ATG TTA TCA GCT CCG GAA TAT GAT GCA CTG CCC GCA TTC   594
 S   H   N   T   N   M   L   S   A   P   E   Y   D   A   L   P   A   F

GAC TCT CGA AAT TTC CTA CAT GCA AAT CTA ATC GAT GCG GCC CAT CAC TAT GCA   648
 D   S   R   N   F   L   H   A   N   L   I   D   A   A   H   H   Y   A

CAT CAG GAA CAA ACA ACG CTT CAG CTT GGC TGA ACG TTG AAG CGG TGG ACG CTT   702
 H   Q   E   Q   T   T   L   Q   L   G   *

AAA ACT CAA TCA AGG CAC CCG AAA AAT ATG CTA GTA ACC TTG AAT GAG ATT CAG   756

AGT CGA AAT ATT GCG AGG CAA GAG CAC AAT GGA AGA GAT AGC TCC TAG TAT GAA   810

TAT GGA TTT ATG ATA TTA ACA TAT GGT TTG TCA GCT TTA AAT ATA GCT GTT TGA   864

AAC AAA GAA TAC AAC ATA TTA GCT AGT ATT TTT TTG GCG CAT GTT ATC TTT CTG   918

TTG                                                                       921
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FIGURE   1

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AAACTCGACAGCAAATATGATTTAGATTATGACCTAGAAATAAGCATAGCATTAAAGCAT   60
ATACATAACAAGCGGTGATATACTCTGACTGCCACTGTACTTGAGGAAAGGTAGTGGACT  120
CTGCTCAGGTACATTAGTTTGGTAAGGTTGGCTTGGCTTCTGGGTAATATGAGAAGTAAA  180
GAAGTAAAAGGTATTTGACTCTAGTCAAGTACATTGGATTGCCTTTGTCGGGGCTTGGAT  240
GGCTTGGGTTCGTGTGAGAAGCCAACAATTTATAAGAAATATATAAAATAAAAAATAAAA  300
AAATTTAAGTGTTGGAAGTGAAAACGGTGGGGCAGAAATATACACAGAAGAGTACTTTAA  360
CAATGCGCAACCAAGGCAGATTCACAACTTGATTTCTGGACCTCGAATACGAGATAATGG  420
TGGTAAGAAATAAAGGAAGAGTGGAGTGCATTTGAAAATGAATGGAGAGCGCACAAAATG  480
GAGGACGAATAAATGAAATATAATGCAAGAGTGCATTTCCCTATTATTTCCAGAAATGTA  540
TATGTGGGGTCGGCATTCACATGGGCGTCGCATTCAGGGGGTGTCATAGCGGTCCTTTGA  600
TTGCAGTGTGGGAGTTGCAACATGTACCAACAAATCCATTCATCCCAAAACCTAAATTTA  660
TCCTCTCCATTACTATTACCTACACCTATACCTAGTAAATATGTCCTGCCTTGTAACTCC  720
TCCACTGCCTGCACACGTCTTAGTCAATCCATCTGCCTTCAAATAGGCATTATTTTGTTC  780
TTTCCCCTCCGACTGAAAGGCTATCGACCGACCGACCGCTCATCTTCTTCTTCTGCGCAA  840
TTTTTTCTGCTGGATCATCATCATTACCATCATCGCCATCCCCACCATCATCATCATGAT  900
GGTATCTCTATCTCTCCCTGGCAATCGATTGTAGAGGAAAGGAAGAGGGAAGGGGCATAT  960
GTATTGATCAACCTACCCGAAAAAACAATCTGATCAGCCCTGCTCAATCTTGCTTATAAA 1020
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TTGGCCGTGTTCTTAGATTTTCAGGTACTTAAATGGACAATATTCCCCACCTGAAGCCGT 1140
TCTGAAAAAGATTTGTTTGTAGAAACAAACGATTGTAATATTTGCTTAAGTTGAGCTTAA 1200
GGGGTTTGGTACCTAACTTGCCTTGTGGTTATTTGTTTCTCAGAACTCGGGCTGCGTCCA 1260
ACTGTAGGAACGAACCAGCACAAGGGGTTGCAGCTTTTGCTGTTGCTGTTGCGCCCATTG 1320
CTTTTGGACTGGTATTAGTAGTTGCAGCTTTGTTTTGCATACGCTGTGAGGATCTGTGCG 1380
CGGAAATTTTGTGTACAAATC                                         1401
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FIGURE   2

FIGURE 3

FIGURE 4

FIGURE 5

6/7

FIGURE 6

09/936869
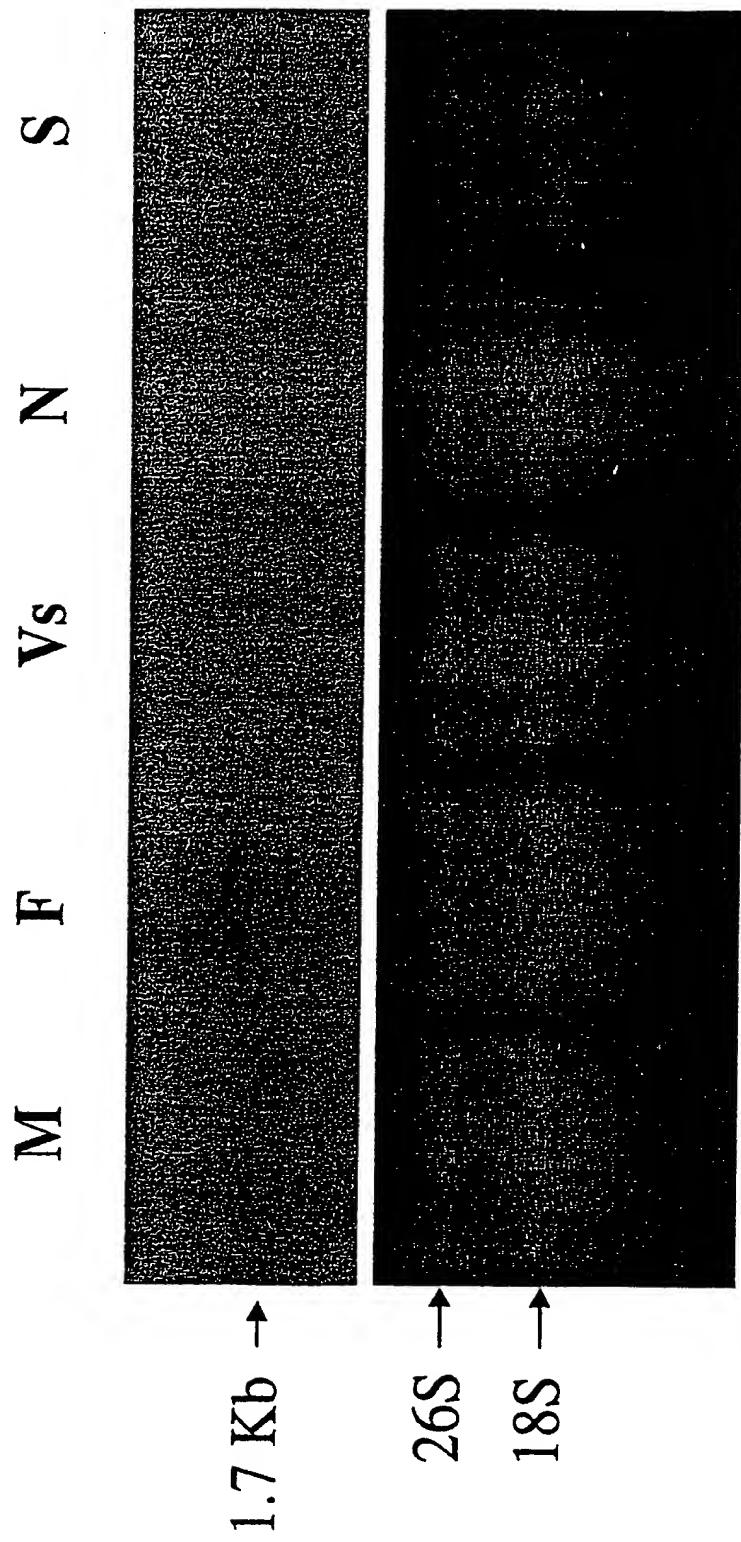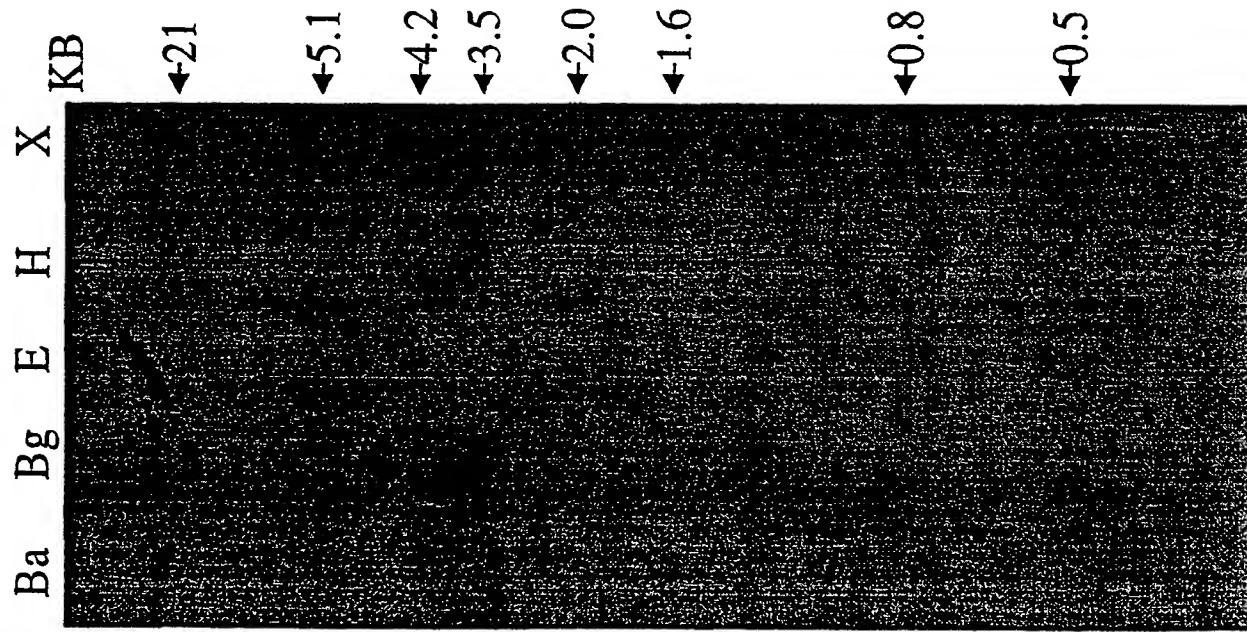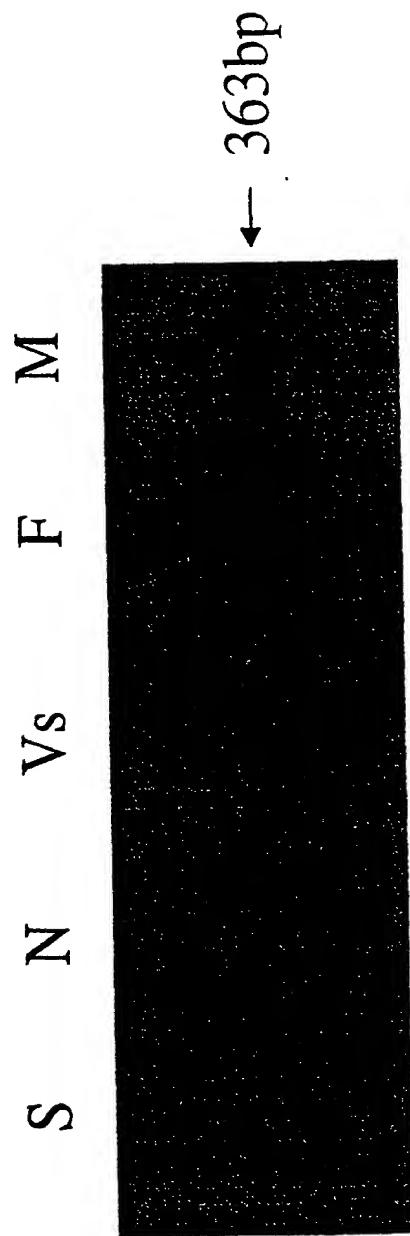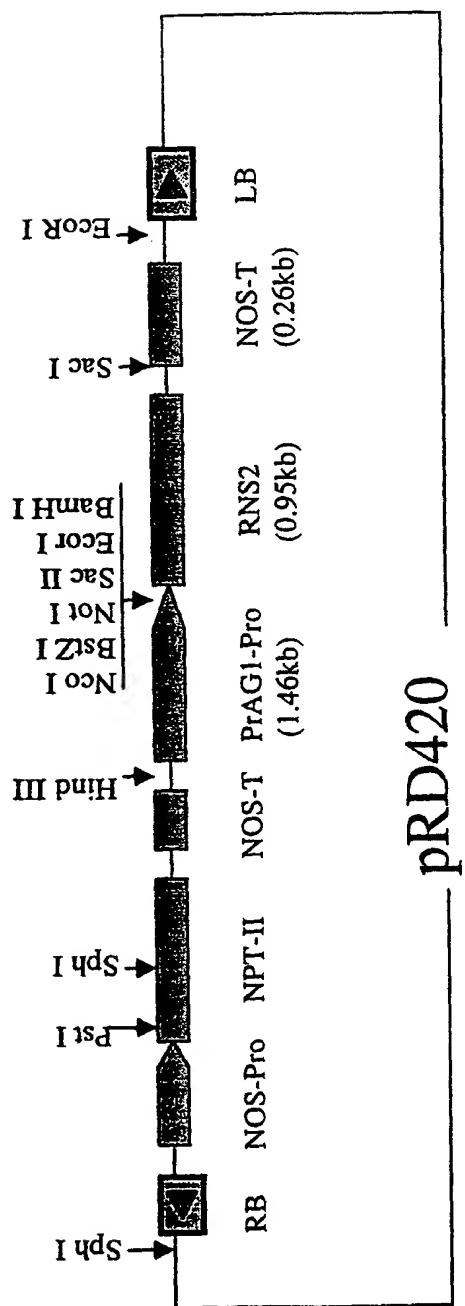
Figure 7

PC C1 C2 C3 1a 1b 2 3a 3b 3c 4a 4b

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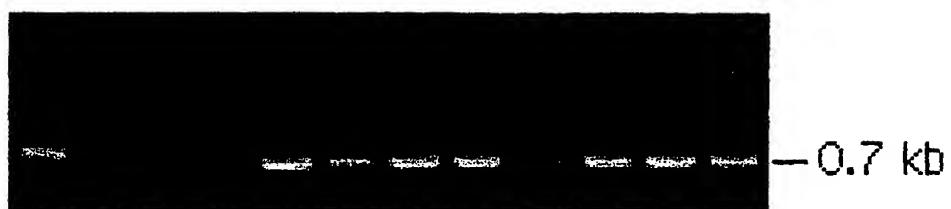
Figure 8

C1 C2 C3 1a 1b 2 3a 3b 3c 4a 4b

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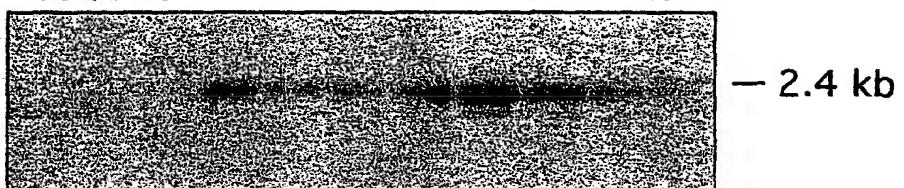
Figure 9

C1 C2 C3 1a 1b 2 3a 3b 3c 4a 4b

—8 kb
—6
—5
—4
—3